

19971015.ba v01_n728.bam.971015 v01_n729.bam.971015

>From ???@??? Thu Oct 16 10:01:33 1997
Message-Id: <199710151229.HAA13449@sco.theporch.com>
Date: Wed, 15 Oct 1997 07:29:22 CDT
Subject: BOATANCHORS digest 1728

BOATANCHORS Digest 1728

Topics covered in this issue include:

- 1) Re: Submarine Warfare in Atlantic
by Richard Loken <richardlo@devax.admin.athabascau.ca>
- 2) Re: Submarine Warfare in Atlantic
by Richard Loken <richardlo@devax.admin.athabascau.ca>
- 3) Manual Wanted
by "Herbert M. Rosenthal" <herbrose@lobo.net>
- 4) Jack and Plug, T-4X
by Bob Reynolds <breynold@sigg.com>
- 5) Valves wanted
by BEN NOCK <G4BXD@compuserve.com>
- 6) RE: Copies HQ-170 manual
by JONWEINER@aol.com
- 7) National HRO-M resurrection starts
by "Lawrence R. Ware" <lrware@pipeline.com>
- 8) Need crystal holders
by "Tom R. Rice" <tomrice@netcom.com>
- 9) Fourth Box in GRC-109 set?
by Tom Norris <badger@telalink.net>
- 10) Re: Submarine Warfare in Atlantic
by Jerry Proc <jproc@idirect.com>
- 11) Manual hunt! the game...
by "Lawrence R. Ware" <lrware@pipeline.com>
- 12) FS Megger manual
by Laird Tom N <LairdTomN@JDCORP.deere.com>
- 13) More questions--AN/URM-26A Signal Generator
by Ken Brookner <brooknerk@acm.org>
- 14) Tucson swapmeet
by w1nml@juno.com (Lock Pingree)
- 15) Re: Fourth Box in GRC-109 set?
by Dick Dillman <ddillman@igc.apc.org>
- 16) Re: Jack and Plug, T-4X
by Bob Roehrig <broehrig@admin.aurora.edu>
- 17) Re: Jack and Plug, T-4X
by Bob Roehrig <broehrig@admin.aurora.edu>
- 18) AM1528/ARC58 FS
by Allen Tucholski <allent@en.com>
- 19) Ranger II Resistor

- by Robert Lawson <lawson_r@popmail.firn.edu>
- 20) Stuff FS
by Jeffrey Herman <jeffreyh@hawaii.edu>
- 21) BA's on MSH web site!
by Tom Norris <badger@telalink.net>
- 22) Re: 32 VDC is still around !
by Ho4bart@aol.com
- 23) Re: 32 Volt
by Ho4bart@aol.com
- 24) Re: FARM RADIOS & WIND-DRIVEN GENERATORS
by Ho4bart@aol.com
- 25) Re: FARM RADIOS & WIND-DRIVEN GENERATORS
by jackiv@juno.com (John M Iverson)
- 26) Re: Farm Radios and Wind-Driven Generators
by Scott Robinson <spr@earthlink.net>
- 27) PRC-47 problems
by "Steve Hill" <SHILL@onaustralia.com.au>
- 28) Re: Homebrew Solid State Tube Replacements
by Sandra L Knepper <slkst29+@pitt.edu>
- 29) need add Miike Bales
by leeboo@ct.net (Leon Wiltsey)
- 30) AR8503 (RCA)
by laffitte@prtc.net (laffitte)

Date: Tue, 14 Oct 1997 11:21:38 -0600 (MDT)
From: Richard Loken <richardlo@devax.admin.athabascau.ca>
To: Jderm740@aol.com
Cc: Old Tube Radios <boatanchors@theporch.com>,
~richardlo@devax.admin.athabascau.ca
Subject: Re: Submarine Warfare in Atlantic
Message-ID:
<Pine.PMDF.3.95.971014104923.541090930A-100000@devax.admin.athabascau.ca>

That is an interesting note on submarines silhouetting ships against the American skyline, I was unaware of that.

One of a hord of recent books on the subject is:

Dangerous Seas: The Duel between the HMCS St Croix and U-305
David J. Bercuson & Holger H. Herwig
Random House Canada, 1997

which follows both these ships and their crews from their launch to their demise, and take a lot of the gloss off the glory of war in the process. The St Croix was one of the 50 old flush deck destroyers that Roosevelt donated to the cause and was eventually sunk by the German acoustic torpedo during

its brief flash of success.

Any way, according to the above gentlemen, U-boats did not just randomly run around the ocean looking for victims, they were in close and constant communications with France where intercept operators received and decoded admiralty convoy traffic and used that data to direct the U-boat fleet by radio. Donitz sent his boats out to patrol the estimated locations of convoys picked up from admiralty communications - they were constantly being sent of to new destinations and they were expected to regularly report their position, their activities, and the weather etc. Boats liked to patrol perpendicular to the projected path in groups like a comb several km apart and generally on the surface doing visual searches for the initial contact.

It seems to me that Donitz put too much faith in the Enigma machine which the lads at Bletchley Park eventually broke. The Admiralty seemed to catch on a lot sooner to the failure of their own cyphers so the German operators would be out of luck for a while while the Enigma messages were being read and the convoys rescheduled in response. Another issue was the allies DFing all those compulsory replies from the U-boats. These two little things helped keep the War of the Atlantic survivable until long range Liberator aircraft and airborne radar turned the tide.

The things that made the U-boats so successful in the first half of the war were also in some part their undoing. Thank God for that.

Richard Loken VE6BSV, Systems Programmer - VMS
Athabasca University
Athabasca, Alberta Canada
** richardlo@admin.athabascau.ca **

Date: Tue, 14 Oct 1997 11:22:55 -0600 (MDT)
From: Richard Loken <richardlo@devax.admin.athabascau.ca>
To: Jderm740@aol.com
Cc: Old Tube Radios <boatanchors@theporch.com>,
~richardlo@devax.admin.athabascau.ca
Subject: Re: Submarine Warfare in Atlantic
Message-ID:
<Pine.PMDF.3.95.971014112205.541090930B-100000@devax.admin.athabascau.ca>

re: my previous long winded diatribe.

Oopes the book is Deadly seas, not Dangerous seas.

Richard Loken VE6BSV, Systems Programmer - VMS
Athabasca University

Athabasca, Alberta Canada
** richardlo@admin.athabascau.ca **

Date: Tue, 14 Oct 1997 11:36:55 -0600
From: "Herbert M. Rosenthal" <herbrose@lobo.net>
To: BoatAnchors <boatanchors@theporch.com>
Subject: Manual Wanted
Message-ID: <3443ADB1.56C0@lobo.net>

I am looking for a manual or copy thereof for a:

SEMCOR Capacitor Analyzer Model RC 115, Hato Rey, Puerto Rico

I have been using it for a few years to measure small value caps OK, but when I tried to measure PF or leakage on an electrolytic, the thing zapped me with 4-500 volts, I'm sure. Apparently it applied that voltage to the cap, which was NOT discharged when I removed it..Not being overly stupid, I thought I'd wait on this type of testing until I find a manual:-).

Thanks, gang.
Herb Rosenthal W5AN
herbrose@lobo.net

Date: Tue, 14 Oct 1997 12:49:26 -0500
From: Bob Reynolds <breynold@sigg.com>
To: boatanchors@theporch.com
Subject: Jack and Plug, T-4X
Message-ID: <970ct14.124545cdt.19802@firewall.sigg.com>

Hi BAers

My T-4X has a .210 inch mic jack, and I can't find a plug to fit it in any of my catalogs. Can anyone help me find one, or would I be burned at the stake for changing the jack to a quarter inch jack?

73, Red K5VOL

breynold@sigg.com (near Chicago)

Date: Tue, 14 Oct 1997 14:02:36 -0400
From: BEN NOCK <G4BXD@compuserve.com>

To: Multiple recipients of 1 <boatanchors@sco.theporch.com>
Subject: Valves wanted
Message-ID: <199710141403_MC2-23E0-18D4@compuserve.com>

Hi all. Can anyone sell me the following:

1A7G
1N5G
1N5EG 1 off each would be fine at the moment
1H5G
1A5EG

or suggest equiv's ??
Postage to the UK happily paid as well.
Many thanks. Ben G4BXD.

Date: Tue, 14 Oct 1997 14:06:52 -0400 (EDT)
From: JONWEINER@aol.com
To: boatanchors@theporch.com
Subject: RE: Copies HQ-170 manual
Message-ID: <971014140640_1958870036@emout14.mail.aol.com>

I have a couple of additional copies of the HQ-170 manual. If any one needs one, let me know. \$6. each post-paid.

Jon, K1VVC

Date: Tue, 14 Oct 1997 13:06:16 +0000
From: "Lawrence R. Ware" <lrware@pipeline.com>
To: boatanchors@sco.theporch.com
Subject: National HRO-M resurrection starts
Message-ID: <3.0.32.19971014130330.006df2f4@pop.pipeline.com>

Hi folks, I thought I'd take a few minutes and let you know how my HRO-M project is coming.

First several people kindly helped me ID ol' S/N C530 as a type M variant of the family. The jury is still out on the coil sets. All are labeled as being for a type RC-105 and marked in frequency only. No "A,B,C" etc. Each has a cal curve on the left face and a place to log stations on the right side. They also have the little loop handles that match the ones on the radio front.

Anyway, the last two days has been spent resurrecting the doghouse

power supply. Unlike the radio it was not in good condition. As found problems included very brittle badly chewed wiring, falling apart two wire power cord, overheated 80 socket, bad filter cap(s) and it was clearly a critter condo at some time.... :-(

In an attempt to keep it as original as possible and improve safety, the first step was a tear down, clean up and a three wire power cord. By using an existing spare hole near the 80, I installed a terminal strip for the three wire power cord to connect. Then added an inrush current limiter to the strip and connected the primary from the potted transformer.

With transformers getting so hard to replace, an inrush limiter can save you a lot of grief...

So far so good. The old 80 socket was carefully removed and replaced with an identical new replacement. The wiring from the socket to the potted transformer was carefully cleaned to show the color codes, then sheathed with clear tubing to insulate the cracking cloth wire. Every wire going into or out of the potted transformer and inductor got the same treatment. The multi-section filter can showed open on all sections.

Because it is an unusual design, a replacement would be almost impossible to obtain. Thus the old can was removed, I cut the top off it with a dremel cutting tool, and discovered it also was potted inside... flipped it upside down and took my heat gun to it after drilling a tiny hole in the bottom to let in air. 10 minutes work with the heat gun and the potting pitch fell out the open end... Next the remaining pieces of the can were taken outside and tossed into a tray with a small amount of gasoline to dissolve the remaining pitch... 10 minutes in the sun at the end of my driveway softened the pitch nicely. another 10 minutes work with an old tooth brush and I had a nice clean shell to work with. After yet another cleaning with soap and water, back inside it come....

The sections of the capacitor were replaced with small HV caps designed for use in switching power supplies....

These exhibit very low ESR and are good replacements for BA power supplies. The first 8 uF in the PI type filter was replaced with a 10 uF unit. the next two 8 uF units were in parallel anyway so were replaced with a single 100 uF unit. I try to stay close to original value for the first cap in a PI filter, larger ones strain the transformer due to higher peak currents.

Some wire work under the top of the old can, and together it went... A little clear silicone seal and some rubber bands to hold the top on while the new seal cures overnight....

If I had to do this again, I would of cut the can where the clamp would hide the cut once reinstalled in the power supply. As it is, a single piece of electrical tape now hides the remains of the cut.

Result, one almost identical can that fits the power supply and looks very close to original.

Time for the varic and meters.... Now have proper outputs with only millivolts of ripple at rated voltage and load... :-)
The little doghouse is sitting in the sun with new black wrinkle touch up paint drying/curing as I type this... Next it's on to the HRO proper....

-Larry Ware
lrware@pipeline.com
Orlando, Florida

Date: Tue, 14 Oct 1997 11:25:08 -0700 (PDT)
From: "Tom R. Rice" <tomrice@netcom.com>
To: boatanchors@sco.theporch.com (boatanchors list)
Subject: Need crystal holders
Message-ID: <199710141825.LAA21463@netcom12.netcom.com>

The following plea is forwarded on behalf of John.
Please direct any replies to him, not to me, the mere messenger. Thanks, WB6BYH

> From: "C-W Crystals" <cwxtal@u-n-i.net>
> Subject: Need crystal holders
> Date: Tue, 14 Oct 97 11:13:55 PDT
>
> Hi Gang,
> I need some of th old round style crystal holders like Bliley made in the
> 1940"s. These are for a "special Request" type order.
> The holders were 1 3/8" diameter and 1/2 to 5/8 inch thick with the pins
> coming out the flat side. Anyone have some of these they want to get rid
> of? I need at least six or eight.
> 73 John
>
>

-----End of forwarded message-----

--
"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice

tomrice@netcom.com

Date: Tue, 14 Oct 1997 13:44:32 +0100
From: Tom Norris <badger@telalink.net>
To: boatanchors@theporch.com
Subject: Fourth Box in GRC-109 set?
Message-ID: <2.2.32.19971014124432.006792f8@telalink.net>

I recently got hold of a 1960 printing of the Fort Gordon Signal School equipment data sheets. In the description of the GRC-109 it says the set is in "4 easily transportable boxes" Was there a fourth box for loose items? The manual doesnt say anything about such a critter....

there are more interesting items from this publication as well. I will make a copy of it, then put some of the text on my Mil List page.

73

tom

Date: Tue, 14 Oct 1997 16:09:25 -0400
From: Jerry Proc <jproc@idirect.com>
To: richardlo@devax.admin.athabascau.ca
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Submarine Warfare in Atlantic
Message-ID: <3443D175.45D4@idirect.com>

Richard Loken wrote:

>
> new destinations and they were expected to regularly report their position,
> their activities, and the weather etc.

I've read the same book and it's great. One small fact that I still remember - the radio traffic from the U-boats continued to grow until it peaked around 2,550 messages per day at the height of the war!! From D-F fixes, the British Admiralty certainly had a good picture of U-boat dispersal in the North Atlantic.

Regards,
Jerry Proc VE3FAB
jproc@bellglobal.com
HMCS HAIDA Naval Museum, Toronto Ont.

Date: Tue, 14 Oct 1997 15:09:29 +0000
From: "Lawrence R. Ware" <lrware@pipeline.com>
To: boatanchors@sco.theporch.com
Subject: Manual hunt! the game...
Message-ID: <3.0.32.19971014150812.006df2f4@pop.pipeline.com>

Afternoon folks,
Today I play yet another round of an unending game:
"Manual Hunter!" <tm>

In todays quest I seek:

National NC-80 & NC-81X manual(s) (may be the same one.)

National HRO-M operating/service manual.

Heath HW-100 operating/service, etc.

Heath HP-23 power supply operating/service, etc.

EMC (Electronics Measurements Corp.) model 215 tube/transistor tester.
Operating/service/tube and transistor charts, etc.

Hewlett Packard type 430B power meter service manual.

Fluke/Montronics model 100 frequency standard/comparator.

And a partridge in a pear tree..... :-)

Photocopies are fine. will be happy to pay copy, postage, etc.

Thanks,

-Larry Ware
lrware@pipeline.com
Orlando, Florida

Date: Tue, 14 Oct 1997 15:17:58 -0500
From: Laird Tom N <LairdTomN@JDCORP.deere.com>
To: "'BA'" <boatanchors@theporch.com>
Subject: FS Megger manual
Message-ID: <0958DD57326BD011813300805FBE98DA018D798A@e90corp2.dx.deere.com>

I have an original "Megger" manual for sale. \$6 shipped CONUS.

Tom Laird
WC9M Moline, IL
LairdTomN@JDCorp.deere.com
looking for clean 75A-3

Date: Tue, 14 Oct 1997 14:02:21 -0700
From: Ken Brookner <brooknerk@acm.org>
To: "'boatanchors@theporch.com'" <boatanchors@theporch.com>
Subject: More questions--AN/URM-26A Signal Generator
Message-ID: <01BCD8A9.CACF7F00@brooknerk@acm.org>

Hi BA'ers...

I've got a signal generator here that I don't know much about. It's labeled:

RF Signal Generator Set
AN/URM-26A
Part Number H-3450
Serial Number 14
AF30(653)30791
Measurements
Boonton, New Jersey

It works, barely, and has a good dent in the top panel. I'm looking for a manual, or whatever information I can find for it. I'll be happy to pay copy and postage costs.

Looks like I've got some receiver alignments coming up, so I'd like to get this guy working.

Also, I received quite a few responses to my question on the Hallicrafters Panoramic display. Thanks to everyone!

kenb, n5lpi/7

Ken Brookner
brooknerk@acm.org
kenb@qatrix.panther.net

Date: Tue, 14 Oct 1997 17:11:38 EDT

From: w1nml@juno.com (Lock Pingree)
To: boatanchors@sco.theporch.com
Subject: Tucson swapmeet
Message-ID: <19971014.133531.7551.1.w1nml@juno.com>

Went to the Tucson swapmeet this past Sunday. This is a small annual affair held at the DeAnza drive-in theatre.

Some of the boatanchors seen:

NC-303 with matching speaker, and converter cabinet with converters for 6 mtrs, 2 mtrs, and 220 Mcs. Looked to be in good shape about an 8. Asking \$ 300. sold.

HQ-180 with the clock (clock knob too) also about an 8. Asking \$ 175. sold.

Lots of Heath equipment. Nice looking Apache, don't remember the price, but was unsold when I left. Saw at least 6 "Benton Harbor Lunchboxes" at various prices.

An R-390 sold as a parts radio, but appeared to have only the top and bottom covers missing. \$ 65. sold.

Lots of tubes and other parts at reasonable prices. The weather was great, temps in the 70's. I spent most of my time there chatting with AM operators and had the first eyeball QSO with Ken, K6CJA, and Brian, WB8JBT.

All in all a good time. If you're in Tucson area in October next year would recommend it.

73, Lock

W1NML/7
AMI #639 QCWA #15033
Phoenix, AZ

Date: Tue, 14 Oct 1997 15:19:14 -0700 (PDT)
From: Dick Dillman <ddillman@igc.apc.org>

To: badger@telalink.net, Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fourth Box in GRC-109 set?
Message-ID: <2.2.16.19971014151622.408fe06a@pop.igc.org>

At 01:44 PM 10/14/97 +0100, Tom Norris wrote:

>I recently got hold of a 1960 printing of the Fort Gordon Signal School
>equipment data sheets. In the description of the GRC-109 it says the
>set is in "4 easily transportable boxes" Was there a fourth box for loose
>items? The manual doesnt say anything about such a critter....

>

>there are more interesting items from this publication as well. I will
>make a copy of it, then put some of the text on my Mil List page.

I suspect the fourth box might have been the GRA-71 code burst encoder. One of these was for sale at the Foothill (CA) swapmeet last weekend for \$200 or so. But even more interesting, a guy who actually jumped out of perfectly good airplanes with these "easily transportable boxes" strapped to his butt came by for a chat. Needless to say I grilled him like an onion regarding the operation of the device as I have one as part of my '109 setup any you never know... Quite interesting.

The other candidate for the extra box would be an additional power supply (there were the large and small supply, the former operable from 6VDC) but it seems unlikely that anyone would want to carry *two* power supplies unless absolutely necessary.

73,

Dick

Dick Dillman
<ddillman@igc.apc.org>
WPE2VT W6AWO
Collector Of Heavy Metal:
Harleys, Willys and Radios Over 100lbs.

Date: Tue, 14 Oct 1997 17:42:51 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Bob Reynolds <breynd@sigg.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Jack and Plug, T-4X
Message-ID: <Pine.ULT.3.96.971014174144.19036A-100000@admin.aurora.edu>

On Tue, 14 Oct 1997, Bob Reynolds wrote:

> My T-4X has a .210 inch mic jack, and I can't find a plug to fit it in
> any of my catalogs. Can anyone help me find one, or would I be
> burned at the stake for changing the jack to a quarter inch jack?

I, for one, cannot understand why some of the mfr's used this size jack.
I have always changed them over to 1/4 inch!

UFO's are real! (It's the Air Force that does not exist)
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Tue, 14 Oct 1997 18:12:44 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Greg Anders <anders@autopsy.csd.sgi.com>
Cc: Boatanchors <boatanchors@sco.theporch.com>
Subject: Re: Jack and Plug, T-4X
Message-ID: <Pine.ULT.3.96.971014180910.19036G-100000@admin.aurora.edu>

On Tue, 14 Oct 1997, Greg Anders wrote:

> Drake says they used the smaller jack so people could not inadvertently
> shove a key into the mic. jack and create massive amounts of "sparks
> and smoke".

That certainly would prevent one from connecting a key into the mic
input, however no damage would occur. However, damage could occur
to a mic if one plugged the mic into some key jacks, which this situation
would NOT prevent. They would have been better off to use the smaller
jack for the key.

UFO's are real! (It's the Air Force that does not exist)
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Date: Tue, 14 Oct 1997 21:10:27 -0400 (EDT)
From: Allen Tucholski <allent@en.com>
To: boatanchors@theporch.com

Subject: AM1528/ARC58 FS
Message-ID: <199710150110.VAA14786@shell.en.com>

Hello,

I have a new refurbished AM1528/ARC58 motorized RF tuning deck module.
dated 3/27/59 manufactured by Collins.
The Unit was refurbished 19/aug/87 by 55ams/OAFBNE
The unit is mint!

Offer?

Allen

Date: Tue, 14 Oct 1997 17:37:06 -0400
From: Robert Lawson <lawson_r@popmail.firn.edu>
To: boatanchors@theporch.com
Subject: Ranger II Resistor
Message-ID: <3443E602.7A8B@popmail.firn.edu>

Fellows,

My Ranger II needs a 'new' adjustable resistor used in it's modulator
screen voltage adjusting circuit.

R35 on the schematic. 20K / 50 watt adjustable ie Ohmite "Dividohm"
type.

Sure could use some help on this one. I have some other values in the 50
and 25 watt range NIB I'd be willing to trade, if not purchase outright.

Please advise. Tnx Rob W4RL Pensacola

Date: Tue, 14 Oct 1997 16:47:57 -1000
From: Jeffrey Herman <jeffreyh@hawaii.edu>
To: Boatanchors List <boatanchors@sco.theporch.com>,
Boatanchors II <boatanchors@listserv.tempe.gov>
Subject: Stuff FS
Message-ID: <Pine.GS0.3.95q.971014164613.3356A-100000@uhunix3>

*Resistance decade box, range from 0 to 100K, manufactured by Industrial
Instruments, model no. DR-51-DA. \$15

*Hewlett Packard Frequency Converter, Model 5253B, 50-500 Mc, missing cover, vernier knob has a piece missing. \$15

*Heath mono audio amplifier, model AA-18, dirty. \$10

*Wideband RF Amplifier, model DA-33, made by Blonder-Tongue Labs NJ. \$10

*Disa Elektronik (Denmark) Auxillary Unit, Type 55D25, contains a low-pass filter (1-1000 Hz), high-pass filter (.2-200 kHz), square-wave generator (.3-30 kHz). \$15

Shipping extra.

Jeff KH2PZ / KH6
jeffreyh@hawaii.edu

Date: Tue, 14 Oct 1997 22:16:49 -0500
From: Tom Norris <badger@telalink.net>
To: (Recipient list suppressed)
Subject: BA's on MSH web site!
Message-ID: <3.0.3.32.19971014221649.00860370@telalink.net>

There are several ads on the current installment of MSH.
Several BC-348's, an WRR3, and much more from several different sellers.

The url is: <http://personalwebs.myriad.net/gspubl/classlst.htm>

I am not associated with the site or its sellers, just that not too much boatachor stuff shows up there!

Tom

Date: Wed, 15 Oct 1997 00:31:38 -0400 (EDT)
From: Ho4bart@aol.com
To: EdKB2NSP@aol.com, boatanchors@theporch.com
Subject: Re: 32 VDC is still around !
Message-ID: <971015002909_879640940@emout17.mail.aol.com>

In a message dated 97-10-14 03:58:40 EDT, EdKB2NSP@AOL.COM writes:

> I have noticed, however, that most of the new vessels being built are

> opting for 24 VDC systems since 8 volt batteries are expensive, and not
> readily available. Much of the marine electronic gear routinely
employs power supplies that accept DC voltages anywhere
between 10 and 40 volts !

i noticed by reading the manuals for some of the Northern Radio Co
(of Seattle, not the eastcoast other, and now deceased, ca. about
1932 ? - 1976 ?) that their big beefy boattradior in the vt era were
available in 12, 24, 32, 110 dc and 115 ac models. heavy metal to
really groove behind, man! another seattle manufacturer, PAR
(ca 1950-1952) built boattalkies using many surplus components.
one 50w set used the old bc-456 'command set' modulator just as a
dynamotor PS, with a resistor in the tube compartment to drop the
32v to the 24v the dynamotor used. Painted the whole thing gray.

the old farm 2v cell sounds like the 2v cells in our telephone switch
office, they're arranged in banks of 12 x 2volts = 24v. look pretty swell
but also heavier 'n hell. no chance to scrounge anything in this line as
they're dealt with solely by the vendor.

in my short residence in the midwest i never saw much in the way of
olde radio but i was surprised at some excellent radio paper memora-
bilia i encountered in antique shops. (no bargain prices.) i bought a
really neat advertising sheet for a windcharger and radio by same
maker, i think Parmak, not available at moment due to recent move.
if scrounging antique stores is something you do, you might ask
about radio memorabilia too.
for me, the thought of living on 32v windcharger power conjures
warm images of living off the nat'l grid, in balance with nature,
cozy, etc, etc -- and the frequencies dc thru 80m QRM-free!
hue miller

Date: Wed, 15 Oct 1997 02:13:42 -0400 (EDT)
From: Ho4bart@aol.com
To: Kd6b@aol.com, boatanchors@theporch.com
Subject: Re: 32 Volt
Message-ID: <971015021342_-394088776@emout19.mail.aol.com>

In a message dated 97-10-13 15:26:35 EDT, Kd6b@AOL.COM writes:

> Few of the 32 Volt light plants survived. The REA required (at least in
> Kansas) that the farmers smash-up the light plants so they could not be
used
> in competition with REA's AC.

maybe so, but there are examples around. while living in nebraska, in
inquired
about this. i changed my mind abt owning one when i saw one close up, i
hadn't
realized the propeller + generator assembly was so large.
hue miller

Date: Wed, 15 Oct 1997 02:23:02 -0400 (EDT)
From: Ho4bart@aol.com
To: JOHN_SEHRING.parti@ecunet.org, boatanchors@theporch.com
Subject: Re: FARM RADIOS & WIND-DRIVEN GENERATORS
Message-ID: <971015022301_-1643858628@emout09.mail.aol.com>

In a message dated 97-10-13 12:31:03 EDT, JOHN_SEHRING.parti@ecunet.org
writes:

> The farm radios I've seen use 2 vibrators, don't know why. There's lots of
> extra shielding in these radios to suppress vibrator hash.

i don't have a clue on this ?, i was just wondering if any radios were
sold that used the 32v for the plates, no higher HV supply. i read an
article in a gersback magazine that showed a schematic for a farm
superhet that used this idea, just wondering if the radio companies
found it practical.
hue miller

Date: Wed, 15 Oct 1997 01:55:12 CDT
From: jackiv@juno.com (John M Iverson)
To: Ho4bart@aol.com
Cc: <boatanchors@sco.theporch.com>
Subject: Re: FARM RADIOS & WIND-DRIVEN GENERATORS
Message-ID: <19971015.015758.9158.2.jackiv@juno.com>

32 volt radios were made with some specific 32 v tubes a type 48 was if
i remember right, was the earliest low voltage plate power tube for out
put. Some times 4 were used in push pull parallel to get reasonable
audio out put. I serviced this stuff in '39 and '40. Can relate many
wincharger as well as Delcolight plant stories. 73 jackiv@juno.com

Date: Wed, 15 Oct 1997 00:46:45 +0100
From: Scott Robinson <spr@earthlink.net>
To: boatanchors@theporch.com

Subject: Re: Farm Radios and Wind-Driven Generators
Message-ID: <v03007801b069b3ed1183@[153.34.140.159]>

Folks,

Zenith sold a package deal with WINcharger-radio plus the wind generator-designed to work on 6V. Sounds like a clever idea to me. I think I read once that Philco had a similar deal.

Zenith made farm radios for each of 2V, 6V, 32V, and-later,with the advent of 50 mA filament tubes, dry battery packs. However, I've never seen oe with two vibrators; perhaps it was a 6V/32V radio with two separate power supplies built-in?

I've seen schematics of radios that ran 32V B+ as well.

Regards,

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Wed, 15 Oct 1997 19:20:21 +1000
From: "Steve Hill" <SHILL@onaustralia.com.au>
To: <boatanchors@sco.theporch.com>
Subject: PRC-47 problems
Message-ID: <09263790600368@onaustralia.com.au>

After having my first QSO with this rig it has unceromoniously died on me.

When I first got it, I could tune up on low power, but not on high power. When I tried to tune on high power, the RF would be there for about a second or two, and then stop. The current being drawn by the rig would stay high until I released the PTT.

Now, as soon as I turn on the HT power supply, the fuse blows.

1) What could the problem be?

My suspicion is the power supply oscillator transistors.

2) If my suspicion above is correct, what transistors can I use to replace the old ones, which are 2N2287s

Also, how reliable is the final in this rig. Should I get myself a stock of spares.

It is a PL-177WA.

Cheers.

Steve Hill VK4CZT
<SHILL@onaustralia.com.au>
39 Banbury St.
Carina. 4152.
Brisbane. Australia.

Date: Wed, 15 Oct 1997 07:47:14 -0400 (EDT)
From: Sandra L Knepper <slkst29+@pitt.edu>
To: WB6WCW@aol.com
Cc: Old Tube Radios <boatanchors@theporch.com>, owner-boatanchors@theporch.com
Subject: Re: Homebrew Solid State Tube Replacements
Message-ID: <Pine.GS0.3.96L.971015074620.21961D-100000@unixs3.cis.pitt.edu>

> >
> > In the latest issue of the Collins Journal, there is the first part of a
> > two part series on the T-Tubes that were comparatively tested in my
> > Collins KWM-2A. Preliminary laboratory tests are nearly complete and the
> > results are very favorable when compared to tubes. The circuitry is
> > generally cascaded Fets and bi-polar transistors.
> >
> > Bill Noonan, Wa6NOJ, after eight years of effort has developed solid-state
> > replacements for the tubes in the Collins. Bill will be making his
> > T-Tubes available for general distribution. Contact him directly at (415)
> > 756-6699 in Colma, California or refer to the Collins Journal article for
> > more details.
> >
> > Dave, W3BJZ
> > Publisher of the Collins Journal
> >
> >
>
>

Date: Wed, 15 Oct 1997 09:19:10 -0400 (EDT)
From: leeboo@ct.net (Leon Wiltsey)
To: BOATANCHORS@theporch.com
Cc: GLOWBUGS@WWW.ATL.ORG
Subject: need add Miike Bales
Message-ID: <199710151319.JAA15548@blue.ct.net>

ANYBODY KNOW MIKE BALES EMAIL ADD?
HE BOUGHT SOME TUBES FROM ME AND i POWE HIM SOME MONEY.

Thank the good LORD for all that you have!!!

67yr old semi disabled senior trying to get code speed to 13wpm
(stroke got my eyesight, balance and coordination) SO ONLY BA'S NO SOLID STATE

Leon (lee) Wiltsey 4600 Lake Haven blvd Sebring fl. 33872 KF4RCL TECK+

Date: Wed, 15 Oct 1997 08:23:22 -0300
From: laffitte@prtc.net (laffitte)
To: boatanchors@theporch.com
Subject: AR8503 (RCA)
Message-ID: <3444A7AA.9C1@prtc.net>

The RCA VLF AR8503 is still in my hands. I have decided to accept only trades for it. My specific needs are:

BC221, AN/URM25 (working or not but complete) or a meter for the Hickok 292X signal generator (a shot in the dark). I will consider other trades for BA items.

For those that did not read my first posting this is a working VLF receiver but requires an A,B,C power supply. There is no cabinet and a couple of coils need a better repair although they show continuity. Set covers up to 600Khz. It has four tubes in a super-regenerative circuit. Chassis needs cleaning. Front panel is ok and complete including all original knobs. I would like for someone to take care of it and restore it. I have too many projects, need the space and don't hear VLF much (bad location).

TNX and best of 73s
Guido E. Santacana KP4FAR

End of BOATANCHORS Digest 1728

>From ???@??? Thu Oct 16 10:02:25 1997
Message-Id: <199710160358.WAA07620@sco.theporch.com>
Date: Wed, 15 Oct 1997 22:58:18 CDT
Subject: BOATANCHORS digest 1729

BOATANCHORS Digest 1729

Topics covered in this issue include:

- 1) Four Box GRC-109....
by Larry Kayser <lkayser@rideau.net>
- 2) Halli Speaker ID
by afpgreg@state.me.us (Paul V. Gregory)
- 3) ICM T12 TX --vaporware?
by MNHopkins@aol.com
- 4) Re: Fourth Box in GRC-109 set?
by Lenox Carruth <carruth@swbell.net>
- 5) Rectifiers
by FPorzelt@seic.com
- 6) Re: Halli Speaker ID
by polepeeg@aa4rm.radio.org (Marty Reynolds' BA ID)
- 7) 7060 QRG / propagation question
by sinned@vnet.IBM.COM
- 8) RF ammeters 3.5A ?? FS
by BEN NOCK <G4BXD@compuserve.com>
- 9) GRC-109 really has *five* boxes
by Pete McCollum 15-Oct-1997 1210 -0600 <mccollum@ssdevo.ENET.dec.com>
- 10) Orange Drop Code?
by Lee Blaske <lblaske@pclink.com>
- 11) Re: Orange Drop Code?
by john <johnmb@mindspring.com>
- 12) RE: Orange Drop Code?
by "James C. Owen, III" <owen@piper.eeel.nist.gov>
- 13) Re: Orange Drop Code?
by Ken Gordon <keng@uidaho.edu>
- 14) Re: Orange Drop Code?
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 15) Re: Orange Drop Code?
by "Roberta J. Barmore" <rbarmore@indy.net>

- 16) Re: Orange Drop Code?
by Scott Robinson <spr@earthlink.net>
- 17) orange drops
by Bob Login <jlogin@gville.mindspring.com>
- 18) Receivers Needing Homes
by ARONGV@aol.com
- 19) Re: Orange Drop Code?
by Jeffrey Herman <jeffreyh@hawaii.edu>
- 20) ROG - Radio Operator's Guide ??
by kb9iua@juno.com (Kevin L Anderson)
- 21) FS= Heathkit Maurader HX-10
by John Dilks <oldradio@worldnet.att.net>
- 22) Stuff for sale
by Allen Tucholski <allent@en.com>
- 23) Re: ROG - Radio Operator's Guide ??
by Paul Bernhardt <bern@ppdu.nrl.navy.mil>
- 24) re: Mic jack for T-4X
by "R. Eric Sluder" <kb9bgs@sprintmail.com>
- 25) Of list people, National research, and crystals
by "Lawrence R. Ware" <lrware@pipeline.com>
- 26) Matchbox available
by hikrbikr@erols.com
- 27) ARRL artifact?
by "Lawrence R. Ware" <lrware@pipeline.com>
- 28) 390A Bandswitch, How TO
by n5off@w5ddl.aara.org
- 29) JACKSON ELECTRICAL INSTRUMENTS PAPERWORK
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 30) Halli Speaker ID
by "Larry Johnson" <k5yf@wt.net>

Date: Wed, 15 Oct 1997 09:28:02 -0400
From: Larry Kayser <lkayser@rideau.net>
To: boatanchors@theporch.com, badger@telalink.net
Subject: Four Box GRC-109....
Message-ID: <2.2.32.19971015132802.006d73e0@rideau.net>

Re "4 easily transportable boxes" Was there a fourth box for loose items? The manual doesnt say anything about such a critter....

Yes there are two ways to see 4 easily transportable boxes for the GRC-109.

The first is to have BOTH power supplies - the first is an AC only supply from about 85V AC to 240V AC switchable and the second is the same supply ratings for AC plus a 6V DC Vibrator supply.

The second is to have the GRA-71 Burst Keyer in the same cast aluminum box format with the radio and just one power supply.

Depending on the site that did the training for specific purposes either configuration is valid.

Normally the GRC-109 was supplied in its wooden shipping case with BOTH power supplies.

Larry
VA3LK / WA3ZIA

Date: Wed, 15 Oct 1997 09:40:54 -0400 (EDT)
From: afpgreg@state.me.us (Paul V. Gregory)
To: boatanchors@theporch.com
Subject: Halli Speaker ID
Message-ID: <199710151340.JAA05095@gatekeeper.ddp.state.me.us>

Ahoy,

Maybe not worth the BW, but I'd like to know more abt this find.
It's quite ugly--a lame attempt at art deco--but it sounds great.
Size: 16"w, 10"d by 10"h. Cabinet is faded black or dirty grey colour. Paint has some texture, but I wouldn't call it wrinkle finish. Very strong cabinet. I am able to sit (180 lbs) on it to tie my shoes.
The speaker facia is a relief, extending abt 3/4" away from cabinet. "Grill" is an apt description of the facia. Consisting of twenty one horizontal strips of steel, each 8-1/2" long, the grill gives this otherwise uninteresting box its personality. In the lower left hand corner is a prominent lower case "h". The "h" and grill strips are gold/yellow in colour.

Inside, the speaker--approx 9-inches diameter--is bolted to a wooden plate between the speaker's outside rim and the steel box. On the magnet flies a decal: a pair of wings with "Hallicrafter" scribed in between. The speaker rim has this nomenclature stamped on it: PMC-100 B8879 P2.

To what receiver was this mated, if any? Any Halli-historians out there?
tnx de N1ZRR, Paul

Date: Wed, 15 Oct 1997 09:57:05 -0400 (EDT)
From: MNHopkins@aol.com
To: boatanchors@theporch.com
Cc: qrp-1@lehigh.edu

Subject: ICM T12 TX --vaporware?

Message-ID: <971015095604_579350129@emout12.mail.aol.com>

Back in the Eisenhower era, in the December 1957 QST on page 33, there is a review of a 80 or 40M 12BH7/5763 transmitter board from International Crystal, the converter people. It has no case and no p/s -- just the board 3 1/2 X 6 inches with or without tubes or crystal, assembled or not in the range of \$8.95 to \$15.95. A paid ad appears at page 114.

This marketing scheme presages today's proliferation of QRP kits and would be historic -- if they ever existed at all.. In many years of radio trading and in the last year of intensive study of this company, I cannot find independent verification that one of these things ever left the factory. No later ads are seen, and no Novice column speaks of them. One wonders if in the burst of 6M activity that occurred about then, the converters and STP-10 transmitters put them on the backburner from where they never escaped.

So how about it, Novices with K something calls, did you or anyone else ever see an International Crystal T-12 transmitter?

de ab5l, michael in dallas, student of ICM, Tecraft, and mementoes of Six Meter's Golden Age: 1957-58 MNHopkins@AOL.com

Date: Wed, 15 Oct 1997 09:46:49 -0500
From: Lenox Carruth <carruth@swbell.net>
To: ddillman@igc.apc.org
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Fourth Box in GRC-109 set?
Message-ID: <3444D759.2CC5@swbell.net>

The fourth box would have been the CY-4621/GRC-10 Case which held all of the small parts. In it were the antenna, counterpoise, ground clamp power adapters, headset, pliers, wrenches, screwdriver, spare tubes, etc.

--

Lenox

Lenox Carruth, Jr. carruth@swbell.net
Dallas, Texas
Collector of WW-II Communications Equipment and Memorabilia

Wanted: TCS-14 Transmitter, TBX, BD-71, Sextant

Date: Wed, 15 Oct 97 14:54:55 CDT
From: FPorzelt@seic.com
To: <boatanchors@sco.theporch.com>
Subject: Rectifiers
Message-ID: <vines.dYg8+gBEFoB@WAYNE.SEIC.COM>

Hello Anchorians,

There has been some discussion regarding the replacement of tube rectifiers with solid state rectifiers in BA gear (i.e. R390's). I found a 1963 hobby booklet at a second hand store which contains information on the subject from that era. For educational and historical purposes, I will offer copies of the following to any interested BA list member:

GE Silicon Controlled Rectifier - Hobby Manual
Chapter 18 - "Replacing Rectifier Tubes with Silicon Rectifiers"
(C) 1963 General Electric / Application Engineering Center

The chapter (of about 6 or 7 pages) includes sample "typical radio power supply circuit" and silicon-for-tube replacement charts.

If you'd like a copy, please email to me directly. I have no idea how many of you will want a copy of this, so I may have to ask for self addressed envelopes if there is a whole lot of interest.

Take care everyone! 73,
Fred KB9MVU

Fred Porzelt
312.460.2497 Voice / 312.460.2555 Fax
fporzelt@seic.com

Date: Wed, 15 Oct 1997 13:57:03 -0400
From: polepeeg@aa4rm.radio.org (Marty Reynolds' BA ID)
To: afpgreg@state.me.us, boatanchors@theporch.com
Subject: Re: Halli Speaker ID
Message-ID: <199710151757.NAA08654@aa4rm>

Paul, sounds like that speaker, at home with the decor of any 40s Trailways bus stn., is the accy. speaker for a SX28 / SX25, or S27/S31. It is still fairly common & is really a neat looking thing.

I believe they came with & without 500 ohm matching xfrms.

I think (lotta qualifiers here) Buck Roger's nemesis, Dr. Zharkov, had one in his secret mountain laboratory.

Marty

Date: Wed, 15 Oct 97 12:38:37 CDT
From: sinned@vnet.IBM.COM
To: boatanchors@sco.theporch.com
Subject: 7060 QRG / propagation question
Message-ID: <199710151801.NAA20663@sco.theporch.com>

So, where's everybody been lately? Haven't heard any BA's at all for several days. Tonight I'll be there with W7ZFB from 7:30 PM CDST testing my "just remodeled 24G's w/bigger power supply" so will be looking for sig reports from all over!

40M Propagation Qest: I have noticed a pattern and I'm wondering if this is just a local issue or is more widespread. After we have rain/fronts/any major weather change, the QRN is usually low before and during the change, but afterwards the QRN goes to S9+ for a day or two. The QRN doesn't sound like the 60HZ modulated microwave oven/light dimmer/insulator noise, but is steady and seems to "absorb" all but the local, strong stations. Is common everywhere? I would think that approaching weather should bring QRN which would then diminish after it clears up. This happens even when there is no rain/lightning. I suspect something to do with weak low altitude ions something else that's "localized" rather than upper atmosphere.

Any comments?

Thanks,
Dennis W5FRS

Date: Wed, 15 Oct 1997 13:54:12 -0400
From: BEN NOCK <G4BXD@compuserve.com>
To: Multiple recipients of 1 <boatanchors@sco.theporch.com>
Subject: RF ammeters 3.5A ?? FS
Message-ID: <199710151354_MC2-23E5-D695@compuserve.com>

Someone here is selling off some 3.5A aerial ammeters, as fitted to the T1154, at 2UK pound each, plus postage. Anyone want one, if I get enough interest, I'll buy them up and distribute them, but I'm

The message as I received it:

3.5 A FSD. The movements have been tested, and are internally clean as they can be without completely stripping them. The bakelite cases are clean, in a small number of instances the cases have been repaired. The glass windows are all ok and stuck in place.

The thermocouples have been visually inspected for completeness but not tested with RF through them. I can't guarantee any calibration as I have only checked them as far as stated.

I am selling them for 2 ukp ea plus postage, I can sell you 10 without too much trouble. They won't be all from the same manufacturer. They will all be the same RAF part number.

[illegible]

Ben G4BXD.

Date: Wed, 15 Oct 97 12:10:31 MDT
From: Pete McCollum 15-Oct-1997 1210 -0600 <mccollum@ssdevo.ENET.dec.com>
To: us3rmc"boatanchors@theporch.com"@us3rmc.cxo.dec.com
Subject: GRC-109 really has *five* boxes
Message-ID: <9710151810.AA11332@us3rmc.cxo.dec.com>

Tom Norris wrote:

>Subject: Fourth Box in GRC-109 set?
>I recently got hold of a 1960 printing of the Fort Gordon Signal School
>equipment data sheets. In the description of the GRC-109 it says the
>set is in "4 easily transportable boxes" Was there a fourth box for loose
>items? The manual doesnt say anything about such a critter....

See page 11 of the TM.
It talks about "each of the 4 major components" being double-boxed, etc.
There is a *fifth* box for the spares and accessories.
I believe that the GRC-109 was only "orderable" as a complete set, which
included both power supplies.

The guy who was taking it out in the field would certainly have the option of leaving one power supply at home, etc.

Pete

Date: Wed, 15 Oct 1997 13:17:39 -0500
From: Lee Blaske <lblaske@pclink.com>
To: boatanchors@theporch.com
Cc: COLLINS@LISTSERV.TEMPE.GOV
Subject: Orange Drop Code?
Message-ID: <v03110708b06ab74aadbfb@[206.11.1.78]>

With all the talk of re-capping, would anyone care to explain the new Orange Drop code?

For instance, I'm looking at a 715P 600V 103J 9721. This is a 0.01 mfd. 600 volt cap. The "600V" is easy to figure out, and the "9721" is obviously a date code. How in the world do you get 0.01 mfd out of "103J"? I'm also looking at a 0.1 mfd, and that has "104J" on it.

Can anyone explain? What's the point of a difficult to understand number when simply printing the actual value would be just as easy?

73,

Lee Blaske N0IZ

Date: Wed, 15 Oct 1997 14:31:37 -0400
From: john <johnmb@mindspring.com>
To: lblaske@pclink.com, boatanchors@theporch.com
Cc: COLLINS@LISTSERV.TEMPE.GOV
Subject: Re: Orange Drop Code?
Message-ID: <199710151835.0AA19659@camel14.mindspring.com>

At 01:17 PM 10/15/97 -0500, you wrote:
>With all the talk of re-capping, would anyone care to explain the new
>Orange Drop code?
(snip)
. How in the world do you get 0.01 mfd out of "103J"? I'm also
>looking at a 0.1 mfd, and that has "104J" on it.
>

It's easy once you know that:

the "10" (first two digits) of the value...

the next digit "3" is the number of zeroes to put
AFTER the above two digits...

the resulting answer is the capacitance value in uuF (hey, this
is the BA list. You Collins folk may note this as pF. :-)

soo....

103J = 10000 uuF or .01uF

(the J=5%)

This is a standard marking convention for most all
small value caps....

/John

```
+-----  
| John Brewer- WB50AU/4  
| AMI #24    Vintage Radio Website  
| http://www.mindspring.com/~johnmb/  
+-----
```

```
-----  
  
Date: Wed, 15 Oct 1997 14:53:45 -0500 (EST)  
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>  
To: boatanchors@theporch.com  
Subject: RE: Orange Drop Code?  
Message-ID: <53625.owen@piper.eeel.nist.gov>
```

In message Wed, 15 Oct 1997 13:17:39 -0500,
Lee Blaske <lblaske@pclink.com> writes:

> For instance, I'm looking at a 715P 600V 103J 9721. This is a 0.01 mfd.
> 600 volt cap. The "600V" is easy to figure out, and the "9721" is
> obviously a date code. How in the world do you get 0.01 mfd out of
> "103J"?

Easy--the value is in pf the code is 10 +3 more zeros or 10000 pf move the
decimal 6 places to the left to get mfd and you have .010000 or .01 mfd.

I'm also looking at a 0.1 mfd, and that has "104J" on it.

Same as above in pf 10 + 4 zeros or 100000 pf move 6 places to left and get

.1 mfd.

> Can anyone explain? What's the point of a difficult to understand number
> when simply printing the actual value would be just as easy?

I don't know how this coding came about

Date: Wed, 15 Oct 1997 12:05:17 -0700 (PDT)
From: Ken Gordon <keng@uidaho.edu>
To: Lee Blaske <lblaske@pclink.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Orange Drop Code?
Message-ID: <Pine.BSF.3.95.971015120050.13598B-1000000@piobaire.mines.uidaho.edu>

> date code. How in the world do you get 0.01 mfd out of "103J"? I'm also
> looking at a 0.1 mfd, and that has "104J" on it.

10 to the third times the 10 or 10,000 PICO farad. A PICO farad is
.000,000,000,000 farad, or a micro-micro farad. Therefore, 10,000 mmfd is
.01 mfd. Write it out.

Therefore 10 X 10 to the 4th, equals 100,000 pfd, equals .1 mfd.

I dunno what the "J" means.

Ken W7EKB

Date: 15 Oct 1997 14:02:09 -0500
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
To: boatanchors@sco.theporch.com, lblaske@pclink.com
Subject: Re: Orange Drop Code?
Message-ID: <1997Oct15.140211-0500@spike.vuse.vanderbilt.edu>

In <v03110708b06ab74aadfb@[206.11.1.78]>, Lee Blaske wrote:

>With all the talk of re-capping, would anyone care to explain the new
>Orange Drop code?

>

>For instance, I'm looking at a 715P 600V 103J 9721. This is a 0.01 mfd. 600
>volt cap. The "600V" is easy to figure out, and the "9721" is obviously a
>date code. How in the world do you get 0.01 mfd out of "103J"? I'm also
>looking at a 0.1 mfd, and that has "104J" on it.

>

>Can anyone explain? What's the point of a difficult to understand number
>when simply printing the actual value would be just as easy?

>

Nothing new about this code, it's been used on ceramics for dog's ages. First two figures are two significant digits, third figure is number of zeros following (value in picofarads). Thus 103= 10 000 pF = 0.01 uF, etc.

A. B. Bonds

Date: Wed, 15 Oct 1997 14:23:38 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Lee Blaske <lblaske@pclink.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Orange Drop Code?
Message-ID: <Pine.SUN.3.96.971015141354.1358C-100000@indy1>

Hi!

The mysterious "103," "104" etc. found on many modern condensers actually reads in pF in a way similar to the resistor color-code scheme: 1st digit, 2nd digit, multiplier. So you've got 10,000 and 100,000 pF respectively. Run that through the six-digits-to-the-left machine, and out pops 0.01 and 0.1 mF. The letter following is a tolerance code, the precise interpretation of which I don't have here in front of me. (In most cases, who cares? +/-10% is way better than good enough unless you're building filters or the like!)

Why do they do it? Standardization, for one: all standard values can be represented by three-digit numbers. And by not having a decimal, they get by the problem of losing the dot (or gaining a new one thanks to a speck of grime).

It's like the overseas use of that handy multiplier, "nano" (10 to the negative ninth). Confusing at first, useful once you're used to it.

73,
--Bobbi

Date: Wed, 15 Oct 1997 12:48:27 -0700
From: Scott Robinson <spr@earthlink.net>
To: lblaske@pclink.com
Cc: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Orange Drop Code?
Message-ID: <34451E0B.CF40DD55@earthlink.net>

Lee Blaske wrote:

>
> With all the talk of re-capping, would anyone care to explain the new
> Orange Drop code?
>
> For instance, I'm looking at a 715P 600V 103J 9721. This is a 0.01
> mfd. 600
> volt cap. The "600V" is easy to figure out, and the "9721" is
> obviously a
> date code. How in the world do you get 0.01 mfd out of "103J"? I'm
> also
> looking at a 0.1 mfd, and that has "104J" on it.
>

Lee and the gang,

103 is interpreted just like a resistor color code, measured in
picofarads. Hence, 103 is $10 \times 10^{**3}$ or 10,000 pF which = 0.01 uF.
Therefore, 104 is $10 \times 10^{**4}=100,000$ pF=0.1 uF.

715P's are polypropylene, high quality stuff.

Regards,

--

Scott Robinson
spr@earthlink.net

Junque is GOOD for you!

Date: Wed, 15 Oct 1997 16:44:38 -0400
From: Bob Login <jlogin@gville.mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: orange drops
Message-ID: <199710152058.QAA20681@camel14.mindspring.com>

Hello fellow BA's--With latests posts to group abt orange drops--
Where's the best source?? Do any of you have them for sale??

Tnx & 73's Bob

Date: Wed, 15 Oct 1997 17:32:13 -0400 (EDT)
From: ARONGV@aol.com
To: boatanchors@theporch.com
Cc: baswaplist@foothill.net
Subject: Receivers Needing Homes
Message-ID: <971015134148_-125598996@emout10.mail.aol.com>

Hi Gang:

I've asked various list members what you do when you have some nice project boatanchors and you don't want to get into the selling or shipping game.

The answer seems to be to offer them to the list *FOR PICKUP ONLY*.

This is no joke. Hardly, I have to keep thinning out my stuff as retirement is coming and I won't have room for my junk when I move to smaller quarters.

Here's what I've got for the price of just coming by and picking it up. If you can't drive to Kansas City (actually in the suburbs to Shawnee) maybe you could have a local ham friend pick it up for you. I WILL NOT SHIP ANY OF THIS:

SX-24, working but needs some TLC. Complete.
RME-69 partially restored, complete
RME-69 appears complete but untested
RME-69 speaker that goes with first person to claim a RME-69.
RME 70 complete, but missing dial glass and dials need to be cleaned.
RME-45 complete but needs PS cap work.
RME-45 mostly complete, excellent parts receiver
Swan 350, 400 and 700CX nearly complete parts rigs
DX-60 nearly complete parts rig

Also have a DX-100 that was mint until it was shipped. UPS wouldn't pay insurance because of the way it was packed, and i don't blame them. Come by and make a bid. Any offer will be given serious consideration.

With the exception of the DX-100, this is all free, but I must insist that anyone who wants any of these receivers intends to take them on as projects or to complete a restoration.

Contact me off the list at ARONGV@aol.com, and please don't twist my arm to ship ANY OF IT. There will be no further posts to the list about this equipment. If I don't respond with E-mail, please assume I got the rush I'm hoping for and that it's all gone.

Ron W00IZ

Date: Wed, 15 Oct 1997 13:06:17 -1000
From: Jeffrey Herman <jeffreyh@hawaii.edu>
To: "Roberta J. Barmore" <rbarmore@indy.net>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Orange Drop Code?
Message-ID: <Pine.GS0.3.95q.971015125902.6689D-1000000@uhunix3>

On Wed, 15 Oct 1997, Roberta J. Barmore wrote:

> Why do they do it? Standardization, for one: all standard values can
> be represented by three-digit numbers. And by not having a decimal, they
> get by the problem of losing the dot (or gaining a new one thanks to a
> speck of grime).

Hi Bobbi,

There is one ambiguous case: "100" - then you have to ask "Does
this mean 100pf or 10pf?" It seems capacitance less than 100pf
will have the two-digit value on the cap, without a trailing
zero.

73,
Jeff KH2PZ

Date: Wed, 15 Oct 1997 20:15:09 EDT
From: kb9iua@juno.com (Kevin L Anderson)
To: boatanchors@theporch.com
Subject: ROG - Radio Operator's Guide ??
Message-ID: <19971015.192027.7095.3.kb9iua@juno.com>

Military Boatanchor Officiendos:

My memory is foggy, but at one time a year or two ago I
recall seeing a photograph somewhere which showed
a AAF radio operator, all in his B-17 fleece flight gear,
where on the table was a book (I know this seems odd;
I am probably dreaming). The title of the book was
"Radio Operator's Guide" (ROG, which I recall emblazed
on the cover as well).

Does such a TM exist from the 1940s?

Thanks for insights. Cheers/73. Kevin

* * * * *

Kevin Anderson, KB9IUA, Rock Island IL USA
kb9iua@juno.com or Kevin.L.Anderson@usace.army.mil

Date: Wed, 15 Oct 1997 20:30:08 -0400
From: John Dilks <oldradio@worldnet.att.net>
To: boatanchors@theporch.com
Subject: FS= Heathkit Maurader HX-10
Message-ID: <34456010.6A8F@worldnet.att.net>

FS= Heathkit Maurader HX-10 \$ 50.00 OBO plus packing and shipping.

To all.... I saw this at a friend's home tonight.

Cabinet is a 8+

Power Transformer is a 0 (no good)

Comes with manual.

Call George at 609-625-2161 between 9 and 10 a.m. Eastern time zone
It's located 10 miles west of Atlantic City, NJ.

73' John Dilks, K2TQN

Date: Wed, 15 Oct 1997 20:53:16 -0400 (EDT)
From: Allen Tucholski <allent@en.com>
To: boatanchors@theporch.com
Subject: Stuff for sale
Message-ID: <199710160053.UAA28440@shell.en.com>

James Millen 16030 Variable Cap "New" Mint \$35

Jennings 250Pf Vacuum capacitor "fixed" \$20

Ge 154 Tube forsale New "General Electric" \$15

United Electronics Company 805 Tube "used" \$20

Shure Model A86A Microphone Transformer "new" \$20
matches low imp to high imp in the box.

Filter Bandpass F-239/U Gold Cavities

58.5 - 67 Mhz can be modified for 2 meters \$30

I have a few Used 807's Tested 75% \$5 each

All Items plus shipping.

Allen

Date: Wed, 15 Oct 1997 21:05:22 -0400 (EDT)
From: Paul Bernhardt <bern@ppdu.nrl.navy.mil>
To: Kevin L Anderson <kb9iua@juno.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ROG - Radio Operator's Guide ??
Message-ID: <Pine.A32.3.91.971015210322.55390B-100000@ppdu.nrl.navy.mil>

Keven,

This sounds like the Radio Operators Information File (ROIF) of which I have an original copy. It contains four-color illustrations of navigation, communication, emergency, and other radio gear from WWII. Both the B17 and B29 are covered in the ROIF.
Sincerely, Paul Bernhardt

Work: P.A. Bernhardt	Home: Paul Bernhardt, KF4FOR
Code 6794	5704 Ridge View Dr.
Naval Research Laboratory	Alexandria, VA 22310
Washington, DC 20375	
Tel: 202-767-0196	703-960-9656
FAX: 202-767-0631	

On Wed, 15 Oct 1997, Kevin L Anderson wrote:

> Military Boatanchor Officiendos:
>
> My memory is foggy, but at one time a year or two ago I
> recall seeing a photograph somewhere which showed
> a AAF radio operator, all in his B-17 fleece flight gear,
> where on the table was a book (I know this seems odd;
> I am probably dreaming). The title of the book was
> "Radio Operator's Guide" (ROG, which I recall emblazed
> on the cover as well).
>
> Does such a TM exist from the 1940s?
>
> Thanks for insights. Cheers/73. Kevin

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> * * * * *
> Kevin Anderson, KB9IUA, Rock Island IL USA
> kb9iua@juno.com or Kevin.L.Anderson@usace.army.mil
> * * * * *
>
```

Date: Wed, 15 Oct 1997 20:57:34 -0500
From: "R. Eric Sluder" <kb9bgs@sprintmail.com>
To: breynold@sigg.com
Cc: boatanchors@theporch.com
Subject: re: Mic jack for T-4X
Message-ID: <3445748E.2E73@sprintmail.com>

Bob,

Try Universal Radio at:

<http://www.universal-radio.com/>

I know they carry them for a small cost of, \$2.99 each order # 2888.

73,

Eric

— —

R. Eric Sluder, KB9BGS	KB9
3339 Eden Way	Believing
Carmel, IN 46033 USA	God's
kb9bgs@sprintmail.com	Son

Date: Wed, 15 Oct 1997 21:34:18 +0000
From: "Lawrence R. Ware" <lrware@pipeline.com>
To: boatanchors@sco.theporch.com
Subject: Of list people, National research, and crystals
Message-ID: <3.0.32.19971015213407.006e2e00@pop.pipeline.com>

Good evening firebottle fans,
Tonight I'd like to take just a moment of your time to tell you
a story.

Recently I asked the ba list for a National NC-80/81 manual photocopy.

I wanted them as part of my ongoing sliding coil catacomb research project. The NC-80 and 81 were the low cost entry level National coil catacomb radios. Instead of getting a manual copy, one of our own; Mr. Edward Zeranski <ejz@nosc.mil> has offered me a whole radio for the shipping costs! :-) This radio will find a happy caring home with my nine other NC-100 variants, (plus three on the way...) I wanted the manuals to help fill in the data I have, but the radio will be far better. Documentation can not give you a radios "feel" to use... My research project will be better and more complete because yet another of you has come forward to contribute. :-)

The list of people who have contributed manuals, articles, information, and other helpful data would read like a Who's Who of boatanchors. Thank you all.

FWIW: My first article submission went to Barry at E/R just a couple of days ago... Heck, he might even print it... :-)

More will follow as my research continues.

If I can ever find the time to finish my web site, all my research will be available to ponder, argue over, and comment on... :-)

Ah Yes; of crystals... I recently came home with about 500 different mostly HC-6 crystals from an estate sale. I have started to sort them and found that at least some fall into the 40 -80 -160 meter ham bands. Many others would run into them as overtone mode devices. I have not compiled a list, and have only started testing and sorting them. But if you would care to drop me a line with the frequency you just have to have to get your whatever back on the air, I will save the mail and send you one for free if I have it/when I find it. Please consider this my small way of trying to say Thank You to you all... :-)

-Larry

Larry Ware
Admirer, Collector, Restorer of National Radio Company
receivers and other artifacts.
Orlando, Florida
lrware@pipeline.com

Date: Wed, 15 Oct 1997 23:01:03 +0100
From: hikrbikr@erols.com
To: Boatanchors <boatanchors@theporch.com>
Subject: Matchbox available
Message-ID: <34453D1F.673@erols.com>

Ahoy! Howard Sterling, WB2AYE, in Centreville VA, has a Johnson Matchbox (275 watt) he'd like to sell. It appears to be in pretty good condition. Please call him direct at (703) 378-6108 to discuss price and shipping. He also has an Eico 723 transmitter, which I didn't see. He'd like to find a good home for it, too.

73,
Mike Steussy, AE4R
Vienna VA

Date: Wed, 15 Oct 1997 21:52:40 +0000
From: "Lawrence R. Ware" <lrware@pipeline.com>
To: boatanchors@sco.theporch.com
Subject: ARRL artifact?
Message-ID: <3.0.32.19971015215217.006f619c@pop.pipeline.com>

Recently found in 1955 documentation:
One mint condition genuine ARRL window decal/sticker.
Appears to be as old as the documents it was found in.

Since I don't belong to the ARRL, I have no use for it.
Free to first really good sob story about why you should have it. :-)
Rules of Ware apply...

-Larry Ware
lrware@pipeline.com
Orlando, Florida

Date: Thu, 16 Oct 1997 02:28:48 UTC
From: n5off@w5ddl.aara.org
To: boatanchors@theporch.com
Subject: 390A Bandswitch, How TO
Message-ID: <103550@w5ddl.aara.org>

The 390A bandswitch is found under the RF deck.

It takes some work to get to it the first time, much faster the next time.

One must remove the front panel. At the back of the RF deck there are two green screws which must be loosened. On the right side there are (I think) two green screws. On the front there are at least two, maybe

three green screws, and on the left side of the front of the RF deck (look through the holes in the left side of the radio) there will be two green screws. Loosen all of these, disconnect the connectors, and the RF deck should lift straight up.

The above is just a scope document. I'd suggest consulting the manual as the RF deck is the toughest to remove.

Once it is out, you can also clean the xtal switch.

73 bonne chance

Tom

Reply to:

Email (home) n5off@w5ddl.aara.org
Email (home) trinit69@idt.net

Lafayette, LA

R-390A Repro Nametags Available FS

Date: Wed, 15 Oct 1997 18:08:34 -0400 (EDT)
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
To: boatanchors@theporch.com
Subject: JACKSON ELECTRICAL INSTRUMENTS PAPERWORK
Message-ID: <9710151808.aa24324@pcusa01.ecunet.org>

To: boatanchors@theporch.com

Has anybody come across any manuals for Jackson equipment?

Awhile back, someone, maybe around Dayton, OH (where Jackson used to be), said they were going to check into it.

I've got a Jackson 640 RF signal generator, a Jackson 648 Tube Tester, and a Jackson 634 Tube Tester. Have only operating instructions & tube test charts for the 634. All looks like '40s stuff.

Jackson made some pretty nice stuff.

Thank you!

-John Sehring (Wed, Oct 15, 1997 3:37 pm MT @Baker, Montana) UCC WB2EQG

Date: Thu, 16 Oct 1997 04:03:37 +0100
From: "Larry Johnson" <k5yf@wt.net>
To: "Boat Anchors" <boatanchors@theporch.com>
Subject: Halli Speaker ID
Message-ID: <01bcd9e0\$193a8ae0\$f99a8bce@k5yf.wt.net>

I can tell you exactly what it is. It's the Hallicrafters PM-23, circa '39-44. It mates with the SX-23,24,25, and 28. And you're right, it's a great sounding speaker. It just so happens that I have one, also with the chrome h logo...which happens to be rare. Most PM-23's did not have the logo. I had my speaker cabinet repainted with black wrinkle (to match existing wrinkle finish) electrostatically, and also did the bottom of my SX-42 cabinet at the same time to match. Looks great and sounds wonderful....

-----Original Message-----

>From: Paul V. Gregory <afpgreg@state.me.us>
>To: Old Tube Radios <boatanchors@theporch.com>
>Date: Wednesday, October 15, 1997 2:48 PM
>Subject: Halli Speaker ID
>
>
>>Ahoy,
>> Maybe not worth the BW, but I'd like to know more abt this find.
>> It's quite ugly--a lame attempt at art deco--but it sounds great.
>> Size: 16"w, 10"d by 10"h. Cabinet is faded black or dirty grey
>>colour. Paint has some texture, but I wouldn't call it wrinkle finish.
>>Very
>>strong cabinet. I am able to sit (180 lbs) on it to tie my shoes.
>> The speaker facia is a relief, extending abt 3/4" away from
>cabinet.
>>"Grill" is an apt description of the facia. Consisting of twenty one
>>horizontal strips of steel, each 8-1/2" long, the grill gives this
>otherwise
>.....
>

End of BOATANCHORS Digest 1729
